SECOND NOTICE OF PROPOSED MODIFICATIONS TO TITLE 8, GENERAL INDUSTRY SAFETY ORDERS, ARTICLE 106, SECTION 5110 OF THE CALIFORNIA CODE OF REGULATIONS

Ergonomics

Pursuant to Government Code Section 11346.8(c), the Occupational Safety and Health Standards Board gives notice of the opportunity to submit written comments on the above-named regulation in which futher modifications are being considered as a result of Board Member consideration.

On January 18 and 23, 1996 the Occupational Safety and Health Standards Board held Public Hearings to consider revisions to Title 8, General Industry Safety Orders, Section 5110 of the California Code of Regulations. The Standards Board received oral and/or written comments on the proposed revisions. The regulation was modified as a result of these comments.

On July 15, 1996 a Notice of Proposed Modifications to the original proposal was provided. However, since that time the proposal was discussed by the Board Members at its September 19, 1996 business meeting. At that time, the Board Members reconsidered the positions taken on certain issues in the proposal and as a result, it is necessary to make further amendments to Section 5110. Therefore, this Second Notice of Proposed Modifications relates to those issues which were reconsidered by the Board Members.

A copy of the full text of the regulation as originally proposed, and a copy of the full text with the initial and further modifications clearly indicated, are attached for your information. Any written comments on the further modifications must be received by 5:00 p.m. on October 22, 1996 at the Occupational Safety and Health Standards Board's Office, 1300 I Street, Suite 920, Sacramento, California 95814. Only written comments that concern the further modifications will be considered before the regulation is scheduled for adoption at the November 14, 1996 Business Meeting of the Occupational Safety and Health Standards Board.

The Occupational Safety and Health Standards Board's rulemaking files on the proposed action are open to public inspection Monday through Friday, from 8:30 a.m. to 4:30 p.m., at the Standards Board's Office, 1300 I Street, Suite 920, Sacramento, California.

Inquiries concerning the proposed modifications may be directed to the Executive Officer, John D. MacLeod at (916) 322-3640.

OCCUPATIONAL SAFETY AND HEALTH STANDARDS BOARD

JOHN D. MACLEOD, Executive Officer

Date: October 2, 1996

FURTHER MODIFICATIONS TO THE ORIGINAL

PROPOSAL

(Section 5110, Ergonomics)

(initial modifications made on July 15, 1996 are indicated in strikeout and double-underscore)

(futher modications are indicated in bold italics with deletions struckout and new language double-underscored)

Add new Section 5110, Ergonomics to read:

Group 15. Occupational Noise and Ergonomics.

* * *

Article 106. Ergonomics.

Section 5110. Ergonomics. Repetitive Motion Injuries.

(a) This section shall apply to a job, process, or operation or of substantially similar identical work activity at the workplace where repetitive motion injuries (RMIs) occur after [OAL to fill in effective date]. For purposes of this section, repetitive motion injuries RMIs are injuries resulting from a repetitive job, process, or operation or of substantially similar identical work activity at the workplace which have been the predominant cause of a diagnosed, objectively identified, musculoskeletal injury to more than one employee within the last 12 months. The diagnosis of a RMI shall be performed by a licensed physican. For definitional purposes, predominant means 50% or more of the injury was caused by a repetitive job, process, or operation of identical work activity.

Exemption: Employers with 9 or fewer employees.

- (b) Every employer subject to this section shall establish and implement an ergonomic program designed to minimize repetitive motion injuries RMIs. The ergonomic program shall include a worksite evaluation, control of ergonomic hazards exposures which have caused RMIs and training of employees.
- (1) Worksite evaluation. Each job, process, or operation or of substantially similar identical work activity covered by this section or a representative number of such jobs, processes, or operations or of substantially similar identical work activities shall be evaluated for ergonomic hazards exposures which have caused repetitive motion injuries RMIs.
- (2) Control of ergonomic hazards exposures which have caused RMIs. Any ergonomic hazard exposures that caused repetitive motion injuries RMIs shall, in a timely manner, be corrected or if not capable of being corrected have the hazard exposures minimized to the extent feasible. The employer shall consider engineering controls, such as work station redesign, adjustable fixtures or tool redesign, and administrative controls, such as job rotation, work pacing or work breaks.
 - (3) Training. Employees shall be provided job-specific training that includes an explanation of:
 - (A) The employer's ergonomic program;
- (B) The <u>ergonomic hazards</u> <u>exposures</u> <u>which eause</u> <u>have been associated with repetitive motion injuries</u> RMIs;
- C) The symptoms and consequences of injuries caused by repetitive motion;
- (D) The importance of reporting symptoms and injuries to the employer; and
- (E) Methods used by the employer to minimize repetitive motion injuries RMIs.
- (c) Measures implemented by an employer in an effort to minimize repetitive motion injuries RMIs shall satisfy the employer's obligations under this section, unless it is shown that a measure known to but not taken by the employer is substantially certain to cause a greater reduction in such injuries and that this alternative measure would not impose additional unreasonable costs.
- -(d) Appendix. Appendix A is a non-mandatory appendix that employers may follow for video display terminal (VDT) operations and thereby be deemed in compliance with this section for such operations.

Note: Authority cited: Sections 142.3 and 6357, Labor Code. Reference: Sections 142.3 and 6357, Labor Code.

Appendix A to Section 5110: Ergonomics Program for VDT Operations (Non-mandatory)

This ergonomics program may be used to comply with Section 5110 with respect to VDT operations.

I. Workstation and Training Evaluation

Each VDT workstation or a representative number from a group of similar VDT workstations shall be initially evaluated using the following worksheet. The evaluation should be repeated whenever the VDT workstation is significantly changed or in response to an ergonomic complaint or injury.

VDT ERGONOMICS EVALUATION WORKSHEET

WORKSITE/LOCATION:		
EVALUATED BY:DATE:		
TOTAL NO. OF WORKSTATIONS REPRESENTED:		
TYPE OF VDT EQUIPMENT USED:		
TYPE OF TASKS PERFORMED:		
TYPICAL HOURS AND WORK CONDITIONS OF VDT OPERATION.	<u>S:</u>	
<u>WORKSTATION EQUIPMENT</u> <u>Ye</u>	<u>?s</u>	<u>No</u>
Does the chair, work surface and VDT fit the operator or readily adjusted that the operator can have the following elements of proper posture:		-such
1. The keyboard and other input devices		
are at approximately elbow height	_	
2. The primary screen display is below eye level with primary viewing area from 1 to 60 degrees below the horizontal plane		
at eye level.		
3. Is there is adequate space beneath the work surface for the employee's legs.		
4. Is the front edge of the keyboard, other	_	
input devices and/or their support		
<u>surface (wherever palm, wrist or forearm</u> <u>contact occurs) rounded and/or padded.</u>		

5. Is the work surface of sufficient size to		
accommodate the VDT components, document		
holder and other task-dependent items.		
6. Is there adequate space and comfortable		
support for the employee's knees and hips		
to be bent at approximately 90 degrees		
with arms at their sides and wrists		
straight at the keyboard/input device.		
7. Is the screen display equipped or		
positioned to minimize glare.		
WORK/REST SHIFTS	<u>Yes</u>	<u>No</u>
2 Dogs the employee have frequent short		
8. Does the employee have frequent short		
interruptions from keystroking/inputting		
at regular intervals throughout the shift		
during which they can perform other		
duties or otherwise give their hands		
and wrists a break.		
RECOGNITION AND TRAINING	<u>Yes</u>	_ <u>No</u>
RECOGNITION AND TRAINING Are employees trained and aware of the following information:	<u>Yes</u>	<u>No</u>
	<u>Yes</u>	— <u>No</u>
Are employees trained and aware of the following information:	<u>Yes</u>	<u>No</u>
Are employees trained and aware of the following information: 9. The employer's use of this Appendix as their ergonomic program.	<u>Yes</u>	_ <u>No</u>
Are employees trained and aware of the following information: 9. The employer's use of this Appendix as their ergonomic program. 10. VDT equipment and/or work practices that	<u>Yes</u>	_ <u>No</u>
Are employees trained and aware of the following information: 9. The employer's use of this Appendix as their ergonomic program. 10. VDT equipment and/or work practices that caused repetitive motion injuries	<u>Yes</u>	<u>No</u>
Are employees trained and aware of the following information: 9. The employer's use of this Appendix as their ergonomic program. 10. VDT equipment and/or work practices that	<u>Yes</u>	_ <u>No</u>
Are employees trained and aware of the following information: 9. The employer's use of this Appendix as their ergonomic program. 10. VDT equipment and/or work practices that caused repetitive motion injuries	<u>Yes</u>	_ <u>No</u>
Are employees trained and aware of the following information: 9. The employer's use of this Appendix as their ergonomic program. 10. VDT equipment and/or work practices that caused repetitive motion injuries have been associated with RMIs.	<u>Yes</u>	_ <u>No</u>
Are employees trained and aware of the following information: 9. The employer's use of this Appendix as their ergonomic program. 10. VDT equipment and/or work practices that caused repetitive motion injuries have been associated with RMIs. 11. Symptoms of repetitive motion injuries	<u>Yes</u>	_ <u>No</u>
Are employees trained and aware of the following information: 9. The employer's use of this Appendix as their ergonomic program. 10. VDT equipment and/or work practices that caused repetitive motion injuries have been associated with RMIs. 11. Symptoms of repetitive motion injuries RMIs associated with VDT use.	<u>Yes</u>	
Are employees trained and aware of the following information: 9. The employer's use of this Appendix as their ergonomic program. 10. VDT equipment and/or work practices that eaused repetitive motion injuries have been associated with RMIs. 11. Symptoms of repetitive motion injuries RMIs associated with VDT use.	<u>Yes</u>	<u>No</u>
Are employees trained and aware of the following information: 9. The employer's use of this Appendix as their ergonomic program. 10. VDT equipment and/or work practices that eaused repetitive motion injuries have been associated with RMIs. 11. Symptoms of repetitive motion injuries RMIs associated with VDT use.	<u>Yes</u>	

during which they can perform other duties or	
otherwise give their hands and wrists a break.	
The importance of the employee maintaining	
proper posture and proper adjustment of the	
workstation to minimize repetitive	
motion injuries RMIs.	

II. Control of Ergonomic Hazards. Exposures Which Have Caused RMIs.

Any VDT workstation(s) identified during the workstation evaluation as posing an ergonomic risk (i.e. by an answer of No to any of the first 8 worksheet questions) shall be corrected by using any combination of feasible engineering and/or administrative controls to change any all No answers to Yes.

III. Training of VDT Operators.

A training program shall be provided to all employees determined by the workstation evaluation to be at risk for the same type of repetitive motion injuries RMIs that triggered the evaluation (i.e. by an answer of No to any of the 15 worksheet questions). The training program shall address the information provided in questions 9 through 15 of the evaluation in sufficient detail that any all previous No answers to questions 9 to 15 are changed to Yes.

FINAL PROPOSED TEXT

(Section 5110, Ergonomics)

(Note: Since this is the second 15-day Notice, the format may be confusing. Therefore, for purposes of clarity, the final proposed

language with further modifications is attached without strikeout and double underscore.)

Add new Section 5110, Ergonomics to read:

Group 15. Occupational Noise and Ergonomics.

* * *

Article 106. Ergonomics.

Section 5110. Repetitive Motion Injuries.

- (a) This section shall apply to a job, process, or operation of identical work activity at the workplace where repetitive motion injuries (RMIs) occur after [OAL to fill in effective date]. For purposes of this section, RMIs are injuries resulting from a repetitive job, process, or operation of identical work activity at the workplace which have been the predominant cause of a diagnosed, objectively identified, musculoskeletal injury to more than one employee within the last 12 months. The diagnosis of a RMI shall be performed by a licensed physican. For definitional purposes, predominant means 50% or more of the injury was caused by a repetitive job, process or operation of identical work activity.

 Exemption: Employers with 9 or fewer employees.
- (b) Every employer subject to this section shall establish and implement a program designed to minimize RMIs. The program shall include a worksite evaluation, control of exposures which have caused RMIs and training of employees.
- _(1) Worksite evaluation. Each job, process, or operation of identical work activity covered by this section or a representative number of such jobs, processes, or operations of identical work activities shall be evaluated for exposures which have caused RMIs.
- (2) Control of exposures which have caused RMIs. Any exposures that caused RMIs shall, in a timely manner, be corrected or if not capable of being corrected have the exposures minimized to the extent feasible. The employer shall consider engineering controls, such as work station redesign, adjustable fixtures or tool redesign, and administrative controls, such as job rotation, work pacing or work breaks.

(3) Training. Employees shall be provided training that includes an explanation of:
(A) The employer's program;
(B) The exposures which have been associated with RMIs;
C) The symptoms and consequences of injuries caused by repetitive motion;
(D) The importance of reporting symptoms and injuries to the employer; and
(E) Methods used by the employer to minimize RMIs.
(c) Measures implemented by an employer in an effort to minimize RMIs shall satisfy the employer's
obligations under this section, unless it is shown that a measure known to but not taken by the employer is
substantially certain to cause a greater reduction in such injuries and that this alternative measure would not
impose additional unreasonable costs.
Note: Authority cited: Sections 142.3 and 6357, Labor Code. Reference: Sections 142.3 and 6357, Labor
Code.
First Notice of Proposed Modifiactons